

transmitting information on the calculated rotational phase difference from said remote-side system to said factory-side system through said transfer medium; and displaying the transmitted information on a display section provided in said factory-side system in a time-series manner.

22. (Amended) The machine operating-state monitoring method as set forth in any one of claims 16 through 21, wherein

a print with a possibility of printing trouble is extracted by monitoring an operating state of a printing machine; and

said plurality of rotating bodies are printing rolls.

IN THE ABSTRACT

Please amend the Abstract on page 63 as shown in the marked-up copy attached to read as follows:

ABSTRACT

A rotational phase difference detecting system, a method that is capable of very accurately detecting a rotational phase difference between a plurality of rotating bodies, a machine operating-state monitoring system, and a method employing the rotational phase difference detecting system. The detecting system has a first rotating body with a first mark, a second rotating body with a second mark, a mark sensor for detecting the first mark, a first camera for imaging the second mark when the mark sensor detects the first mark, and a display section for displaying the second mark imaged by the first camera. The rotational phase difference is detected from a position of an image of the second mark displayed on the